



UNITED STATES PATENT AND TRADEMARK OFFICE

UNITED STATES DEPARTMENT OF COMMERCE
United States Patent and Trademark Office
Address: COMMISSIONER FOR PATENTS
P.O. Box 1450
Alexandria, Virginia 22313-1450
www.uspto.gov

HP

APPLICATION NO.	FILING DATE	FIRST NAMED INVENTOR	ATTORNEY DOCKET NO.	CONFIRMATION NO.
10/064,176	06/19/2002	Constantine Grancharov	22993-2	1130
29127	7590	01/10/2006	EXAMINER	
HOUSTON ELISEEVA 4 MILITIA DRIVE, SUITE 4 LEXINGTON, MA 02421			TANG, KAREN C	
			ART UNIT	PAPER NUMBER
			2151	
DATE MAILED: 01/10/2006				

Please find below and/or attached an Office communication concerning this application or proceeding.

Office Action Summary	Application No.	Applicant(s)
	10/064,176	GRANCHAROV ET AL.
	Examiner Karen C. Tang	Art Unit 2151

-- The MAILING DATE of this communication appears on the cover sheet with the correspondence address --

Period for Reply

A SHORTENED STATUTORY PERIOD FOR REPLY IS SET TO EXPIRE 3 MONTH(S) OR THIRTY (30) DAYS, WHICHEVER IS LONGER, FROM THE MAILING DATE OF THIS COMMUNICATION.

- Extensions of time may be available under the provisions of 37 CFR 1.136(a). In no event, however, may a reply be timely filed after SIX (6) MONTHS from the mailing date of this communication.
- If NO period for reply is specified above, the maximum statutory period will apply and will expire SIX (6) MONTHS from the mailing date of this communication.
- Failure to reply within the set or extended period for reply will, by statute, cause the application to become ABANDONED (35 U.S.C. § 133). Any reply received by the Office later than three months after the mailing date of this communication, even if timely filed, may reduce any earned patent term adjustment. See 37 CFR 1.704(b).

Status

- 1) Responsive to communication(s) filed on 19 October 2005.
- 2a) This action is FINAL. 2b) This action is non-final.
- 3) Since this application is in condition for allowance except for formal matters, prosecution as to the merits is closed in accordance with the practice under *Ex parte Quayle*, 1935 C.D. 11, 453 O.G. 213.

Disposition of Claims

- 4) Claim(s) 1-9, 11-27 and 29-41 is/are pending in the application.
- 4a) Of the above claim(s) _____ is/are withdrawn from consideration.
- 5) Claim(s) _____ is/are allowed.
- 6) Claim(s) 1-9, 11-27, 29-41 is/are rejected.
- 7) Claim(s) _____ is/are objected to.
- 8) Claim(s) _____ are subject to restriction and/or election requirement.

Application Papers

- 9) The specification is objected to by the Examiner.
- 10) The drawing(s) filed on _____ is/are: a) accepted or b) objected to by the Examiner.
Applicant may not request that any objection to the drawing(s) be held in abeyance. See 37 CFR 1.85(a).
Replacement drawing sheet(s) including the correction is required if the drawing(s) is objected to. See 37 CFR 1.121(d).
- 11) The oath or declaration is objected to by the Examiner. Note the attached Office Action or form PTO-152.

Priority under 35 U.S.C. § 119

- 12) Acknowledgment is made of a claim for foreign priority under 35 U.S.C. § 119(a)-(d) or (f).
- a) All b) Some * c) None of:
 1. Certified copies of the priority documents have been received.
 2. Certified copies of the priority documents have been received in Application No. _____.
 3. Copies of the certified copies of the priority documents have been received in this National Stage application from the International Bureau (PCT Rule 17.2(a)).

* See the attached detailed Office action for a list of the certified copies not received.

Attachment(s)

<ol style="list-style-type: none"> 1)<input checked="" type="checkbox"/> Notice of References Cited (PTO-892) 2)<input type="checkbox"/> Notice of Draftsperson's Patent Drawing Review (PTO-948) 3)<input type="checkbox"/> Information Disclosure Statement(s) (PTO-1449 or PTO/SB/08) Paper No(s)/Mail Date _____. 	<ol style="list-style-type: none"> 4)<input type="checkbox"/> Interview Summary (PTO-413) Paper No(s)/Mail Date. _____. 5)<input type="checkbox"/> Notice of Informal Patent Application (PTO-152) 6)<input type="checkbox"/> Other: _____.
--	--

- This action is responsive to the amendment and remarks file on 10/19/05.
- Claims 1-9, 11-27, 29-41 are presented for further examination.

DETAILED ACTION

Claim Rejections - 35 USC § 103

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negated by the manner in which the invention was made.

Claims 1-3, 5-9, 11-13, 15-27, 29-41 are rejected under 35 U.S.C. 103(a) as being unpatentable over Stern et al (US 2002/0052928) hereinafter Stern in view of Kraft et al (US 2002/0147637) hereinafter Kraft.

1. Referring to Claims 1 and 26, Stern discloses a URL resolution system for resolving Universal Resource Locators (URLs) (refer to Title and Abstract), the URL resolution system comprising: a website crawler (refer to 11, Fig 1) for crawling a website and for locating script code (refer to 0115) which is used to dynamically create at least one script URL (refer to 0055 and refer to 0115); and a script URL resolution component for causing examination of the script code located during the crawling to obtain the script URL (refer to 0115 - 0144).

Stern does not expressly indicate execution of the script code to obtain the script URL.

Kraft discloses execution of the script code to obtain the script URL (refer to 0070).

At the time of the invention, it would have been obvious to a person of ordinary skill in the art to create a new URL by executing the script code from the web-pages.

The suggestion/motivation would have been that it is convenient to make the system dynamic by forming the URL by executing the codes.

2. Referring to Claim 2, Stern discloses wherein the website includes one or more web pages (refer to abstract), and the website crawler crawls individual web pages associated with websites (refer to 0049-0054), and has a crawling controller for controlling the website crawler (It is inherent that the crawler consists of a controller because it is a form of software and computer consists of a processor, abstract, is a controller which control all software within the system.).

3. Referring to Claims 3 and 27, Stern discloses wherein the website crawler has a script code detector for determining if a web page uses script code to dynamically create at least one script URL (refer to 0115 - 0118).

4. Referring to Claim 5, Stern discloses wherein the crawling controller receives results of script code examination from the script URL resolution component, and controls the website crawler based on the examination results (0112-0144, the processor, computer, provides the result back to the crawler by providing all the token as results).

5. Referring to Claims 6 and 28, Stern discloses wherein the examination results include the script URL when the script code examination is successful, and the crawling controller controls the web crawler to crawl a web page identified by the script URL (refer to 0115 – 0144 and 0223).

6. Referring to Claims 7 and 34, Stern discloses wherein the crawling controller (It is inherent that the crawler consists of a controller because it is a form of software and computer consists of a processor, abstract, is a controller which control all software within the system) controls the website crawler to crawl multiple web pages in parallel (refer to 0077).

7. Referring to Claims 8 and 33, Stern discloses wherein controller controls the website crawler to crawl the web page identified by the script URL immediately (refer to 0115 – 0144 and 0222 - 0223).

8. Referring to Claims 9 and 35, Stern discloses wherein the crawling controller controls the website crawler to queue the web page identified by the script URL for crawling at a later time (refer to 0115 – 0144 and 0223 -0225).

9. Referring to Claim 10, Stern discloses wherein the script URL resolution component causes execution of the script code to obtain the script URL (refer to 0115-0144).

10. Referring to Claims 11, 29 and 31, Stern discloses wherein the website includes one or more web pages (refer to 0115-0144), the script code has a specific part that is used to create the script URL (refer to 0118-0140), and the script URL resolution component comprises'. a web page loading controller (web browser, refer to 0026) for instructing a web page examiner to load the web page located by the website crawler (refer to 0111); and a script code execution controller for instructing the web page examiner to execute the specific part of the script code used in the loaded web page to obtain the script URL (refer to 0115-0144).

11. Referring to Claim 13, Stern discloses wherein the script code execution controller (Data Extractor, refer to 0223) uses an execution function of the web page examiner to execute the specific part of the script code (refer to 0115 – 0144).

12. Referring to Claim 15, Stern discloses wherein the script URL resolution component outputs an execution result including the script URL (refer to 0225) when the execution of the script code is successful, and the website crawler performs crawling of a web page identified by the script URL (refer to 0111).

13. Referring to Claim 16, Stern discloses wherein the script URL resolution component outputs an examination result (refer to 0225) including a failure result when the examination of the script code fails (refer to 0111 – 0113 and 0224).

14. Referring to Claim 17, Stern discloses wherein the URL resolution system further comprises a presentation unit to present the examination result to a user (it is inherent that computer consists of monitor which would load the web page/result to the screen, refer to 0002, and 0049).

15. Referring to Claim 18, Stern discloses wherein the script URL resolution component (URL, refer to 0084) is provided as a part of the URL resolution system (refer to Title and Abstract).

16. Referring to Claim 19, Stern discloses wherein the script URL resolution component is provided as a part of the website crawler (refer to 0115-0144).

17. Referring to Claims 12 and 20, Stern discloses wherein the website crawler includes the web page examiner (refer to 0115-0144 and 0081).

18. Referring to Claim 21, Stern discloses wherein the website has one or more web pages, and the script URL resolution component is a script URL gatherer for locating each URL contained in any of the web pages of the website and causing examination of a web page identified by each URL to resolve script code contained in the web page to obtain any script URL created by the script code (refer to 0055, 0115 - 0144).

19. Referring to Claim 22, Stern discloses further comprising an advanced web page examiner having: a web page loader (web page browser, refer to 0074 - 0081) for loading a web page identified by a URL received from the script URL gatherer (0115-0144), and a script code examiner (compiler, which is inherently embedded in the system that examine the script code) for examining the loaded web page to resolve any script URL that is created by script code in the loaded web page.

20. Referring to Claim 23, Stern discloses wherein the script code examiner (compiler, which is inherently embedded in the system that examine the script code) executes script code found in the loaded web page, and returns the execution result (refer to 0055, 0119-0140) to the script URL gatherer (database, refer to 14, Fig 1).

21. Referring to Claim 24, Stern discloses wherein the advanced web page examiner (database queries, refer to 0032) is provided as a part of the URL resolution system (refer to 0068).

22. Referring to Claim 25, Stern discloses wherein the website crawler further comprises a script code detector for detecting a web page that uses script code to create at least one script URL (refer to 0144); and the script URL gatherer (database, refer to 14, Fig 1) sends to the advanced web page examiner a URL of the web page detected by the script code detector (refer to 0031 – 0032 and 0115-0144).

23. Referring to Claim 30, Stern discloses wherein the loading step comprises a step of instructing a web page examiner to load the located web page (refer to 0080 - 0081).

24. Referring to Claim 32, Stern discloses a step of continuing crawling of a web page identified by the script URL (refer to 0144).

25. Referring to Claim 36, Stern discloses wherein a website has one or more web pages (refer to 0144) and the locating step comprises steps of finding a URL in the web pages (refer to 0115-0144), and examining a web page identified by the URL to locate script code in the web page identified by the URL (refer to 0111, 0161-0221).

26. Referring to Claim 37, Stern discloses a step of selecting a web page that contains script code that is used to dynamically create at least one script URL (refer to 0115-0144), and wherein the examining step examines the selected web page (refer to 0111-0113, and 0222).

27. Referring to Claim 38, Stern discloses obtaining examination results including the script URL when the examination step is successful (refer to 0115 – 0144 and 0223) and a failure result when the examination step fails to obtain the script URL (refer to 0224); and presenting to a user the examination result including the script URL and/or the failure result (refer to 0031).

28. Referring to Claim 39, Stern discloses a computer readable medium storing (refer to 0082) the instructions and/or statements for use in the execution in a computer of a method for resolving Universal Resource Locators (URLs) (links/URL consists of statement which use to execute/load webpages on a monitor.), the method comprising steps of: locating script code which creates at least one script URL while crawling a website (refer to 0111, 0161-0221), and examining the script code to obtain the script URL from the examination result (refer to 0111-0113, and 0222).

Stern does not expressly indicate execution of the script code to obtain the script URL.

Kraft discloses execution of the script code to obtain the script URL (refer to 0070).

At the time of the invention, it would have been obvious to a person of ordinary skill in the art to collect links by executing the script code from the web-pages.

The suggestion/motivation would have been that by making a system dynamically collecting links not only it speed up the process but also to reduce human errors and maintenance efforts.

30. Referring to Claim 40, Stern discloses electronic signals for use in the execution in a computer of a method for resolving Universal Resource Locators (URLs) (refer to 0115-0144, it is inherent that when execute the script code, it is a type of electronic signals), the method comprising steps of: locating script code which creates at least one script URL while crawling a website (refer to 0115 - 0144), and examining the script code to obtain the script URL from the examination result (refer to 0111-0113, and 0222).

Stern does not expressly indicate execution of the script code to obtain the script URL.

Kraft discloses execution of the script code to obtain the script URL (refer to 0070).

At the time of the invention, it would have been obvious to a person of ordinary skill in the art to collect links by executing the script code from the web-pages.

The suggestion/motivation would have been that by making a system dynamically collecting links not only it speed up the process but also to reduce human errors and maintenance efforts.

31. Referring to Claim 41, Stern discloses a computer program product for use in the execution in a computer of a method for resolving Universal Resource Locators (URLs) (web page, refer to 0024-0027), the computer program product comprising: a module for locating script code which creates at least one script URL while crawling a website (web scrawler, refer to 11, Fig 1); and a module for examining the script code to obtain the script URL from the examination result (data-extract system, refer to 0075).

Stern does not expressly indicate execution of the script code to obtain the script URL.

At the time of the invention, it would have been obvious to a person of ordinary skill in the art to collect links by executing the script code from the web-pages.

The suggestion/motivation would have been that by making a system dynamically collecting links not only it speed up the process but also to reduce human errors and maintenance efforts.

The following is a quotation of 35 U.S.C. 103(a) which forms the basis for all obviousness rejections set forth in this Office action:

(a) A patent may not be obtained though the invention is not identically disclosed or described as set forth in section 102 of this title, if the differences between the subject matter sought to be patented and the prior art are such that the subject matter as a whole would have been obvious at the time the invention was made to a person having ordinary skill in the art to which said subject matter pertains. Patentability shall not be negatived by the manner in which the invention was made.

II. Claims 4 and 14 are rejected under 35 U.S.C. 103(a) as being unpatentable over Stern et al hereinafter Stern (US 2002/0052928) in view of Kraft et al (US 2002/0147637) hereinafter Kraft in further view of Meyerzon et al (US 6,424,966) hereinafter Meyerzon.

1. Referring to Claim 4, Stern discloses wherein the script code detector has a generating function (output, refer to 0225) when the script code detector locate a web page that uses script code to dynamically create at least one script URL (refer to 0115 – 0144).

Stern does not expressly disclose the notification.

Meyerzon discloses the notification (refer to Col 2, Lines 39-60)

At the time of invention, it would have been obvious to a person of ordinary skill in the art to combine Stern and Meyerzon by including a notification within the system when locating a web page.

The suggestion/motivation for doing so would have been that by notify the system when created a or retrieve a script URL, it would let the user knowing the status of the system which is currently processing information so in the case when the system is stuck

indefinitely in a site trying to retrieve the information (refer to 0223), the user will be notified.

2. Referring to Claim 14, Stern discloses wherein the website crawler has a script code detector for determining if a web page uses script code to dynamically create at least one script URL (refer to 0115 - 0118), a web page that uses script code to dynamically create at least one script URL (refer to 0115-0144); and the web page loading controller controls (web browser, refer to 0026) loading of the located web page in response to the website crawler (refer to 0080).

Stern does not expressly disclose the notification.

At the time of invention, it would have been obvious to a person of ordinary skill in the art to combine Stern and Meyerzon by including a notification within the system when locating a web page.

The suggestion/motivation for doing so would have been that by notify the system when created a or retrieve a script URL, it would let the user knowing the status of the system which is currently processing information so in the case when the system is stuck indefinitely in a site trying to retrieve the information (refer to 0223), the user will be notified.

Response to Arguments

Applicant's arguments filed 10/19/05, have been fully considered but they are moot due to the new ground of rejection.

Conclusion

Applicant's amendment necessitated the new ground(s) of rejection presented in this Office action. Accordingly, **THIS ACTION IS MADE FINAL**. See MPEP § 706.07(a). Applicant is reminded of the extension of time policy as set forth in 37 CFR 1.136(a).

A shortened statutory period for reply to this final action is set to expire THREE MONTHS from the mailing date of this action. In the event a first reply is filed within TWO MONTHS of the mailing date of this final action and the advisory action is not mailed until after the end of the THREE-MONTH shortened statutory period, then the shortened statutory period will expire on the date the advisory action is mailed, and any extension fee pursuant to 37 CFR 1.136(a) will be calculated from the mailing date of the advisory action. In no event, however, will the statutory period for reply expire later than SIX MONTHS from the date of this final action.

Any inquiry concerning this communication or earlier communications from the examiner should be directed to Karen C. Tang whose telephone number is (571)272-3116. The examiner can normally be reached on M-F 7 - 3.

If attempts to reach the examiner by telephone are unsuccessful, the examiner's supervisor, Zarni Maung can be reached on (571)272-3939. The fax phone number for the organization where this application or proceeding is assigned is 571-273-8300.

Information regarding the status of an application may be obtained from the Patent Application Information Retrieval (PAIR) system. Status information for published applications may be obtained from either Private PAIR or Public PAIR.

Status information for unpublished applications is available through Private PAIR only.

For more information about the PAIR system, see <http://pair-direct.uspto.gov>. Should you have questions on access to the Private PAIR system, contact the Electronic Business Center (EBC) at 866-217-9197 (toll-free).

Karen Tang



ZARNI MAUNG
ADVISORY PATENT EXAMINER